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## 1 [Architecting reconfigurable component-based operating systems](#)

[Juri Polakovic](#), [Jean-Bernard Stefani](#)

June 2008 **Journal of Systems Architecture: the EUROMICRO Journal**, Volume 54 Issue 6

**Publisher:** Elsevier North-Holland, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Dynamic reconfiguration allows modifying a system during its execution, and can be used to apply patches and updates, to implement adaptive systems, dynamic instrumentation, or to support third-party modules. Dynamic reconfiguration is important in embedded ...

**Keywords:** Component-based operating systems, Dynamic reconfiguration, Embedded systems

## 2 [Diffracting trees](#)

[Nir Shavit](#), [Asaph Zernach](#)

November 1996 **Transactions on Computer Systems (TOCS)**, Volume 14 Issue 4

**Publisher:** ACM

Full text available: [Pdf](#) (729.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 46, Citation Count: 11

Shared counters are among the most basic coordination structures in multiprocessor computation, with applications ranging from barrier synchronization to concurrent-data-structure design. This article introduces diffracting trees, novel data structures ...

**Keywords:** contention, counting networks, index distribution, lock free, wait free

## 3 [Mutatis mutandis: safe and predictable dynamic software updating](#)

[Gareth Stoye](#), [Michael Hicks](#), [Gavin Bierman](#), [Peter Sewell](#), [Iulian Ntaminig](#)

January 2005 **POPL '05: Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

**Publisher:** ACM

Full text available: [Pdf](#) (273.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Dynamic software updates can be used to fix bugs or add features to a running program without downtime. Essential for some applications and convenient for others, low-level dynamic updating has been used for many years. Perhaps surprisingly, there is ...

**Keywords:** capability, dynamic software updating, proteus, type inference, updateability analysis


Also published in:

January 2005 **SIGPLAN Notices** Volume 40 Issue 1

4 [Mutatis Mutandis: Safe and predictable dynamic software updating](#)

 Gareth Stoyte, Michael Hicks, Gavin Bierman, Peter Sewell, Iulian Neamtii  
August 2007 **Transactions on Programming Languages and Systems**  
(**TOPLAS**) , Volume 29 Issue 4

**Publisher:** ACM

Full text available:  Pdf (1.43 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 117, Citation Count: 1

This article presents Proteus, a core calculus that models dynamic software updating, a service for fixing bugs and adding features to a running program. Proteus permits a program's type structure to change dynamically but guarantees the updated program ...

**Keywords:** Dynamic software updating, Proteus, capability, type inference, updateability analysis

5 [Safe Class and Data Evolution in Large and Long-Lived Java\[tm\]](#)

[Applications](#)

[Mikhail Dmitriev](#)

August 2001 Safe Class and Data Evolution in Large and Long-Lived Java[tm]  
Applications

**Publisher:** Sun Microsystems, Inc.

Full text available:  Pdf (876.82 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 49, Citation Count: 1

There is a growing class of applications implemented in object-oriented languages that are large and complex, that exploit object persistence, and need to run uninterrupted for long periods of time. Development and maintenance of such applications can ...

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